IN THE CLAIMS

The current claims follow. For claims not marked as amended in this response, any difference in the claims below and the previous state of the claims is unintentional and in the nature of a typographical error.

1. (Currently Amended) For use in a wireless network, a base station capable of controlling the use of the reduced slot cycle mode by mobile stations communicating with said base station, said base station comprising:

a traffic monitor capable of monitoring message traffic levels handled by said base station; and

a reduced slot cycle controller capable of receiving traffic statistics information from said traffic monitor and determining whether use of said reduced slot cycle mode by said mobile stations communicating with said base station interferes with scheduling of paging message transmissions by said base station,

wherein in response to a determination that said use of the reduced slot cycle mode by said mobile stations does interfere with said scheduling of paging message transmissions by said base station, the reduced slot cycle controller causes said base station to transmit a first control message indicating that the reduced slot cycle mode is disabled in said base station.

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2. (Currently Amended) The base station as set forth in Claim 1 wherein said reduced

slot cycle controller, in response to a determination that said use of the reduced slot cycle mode by

said mobile stations does not interfere with said scheduling of paging message transmissions by said

base station, causes said base station to transmit a first control message indicating that the reduced

slot cycle mode is enabled disabled in said base station.

3. (Currently Amended) The base station as set forth in Claim 2 1 wherein said first

control message is transmitted in an overhead channel.

4. (Currently Amended) The base station as set forth in Claim 2 1 wherein said first

control message is transmitted in a traffic channel.

5. (Currently Amended) The base station as set forth in Claim 2 1 wherein said first

control message causes a selected target mobile station already operating in the reduced slot cycle

mode to switch to operating in the full slot cycle mode.

6. (Currently Amended) The base station as set forth in Claim 2 1 wherein said first

control message causes new mobile stations accessing said base station to operate only in the full slot

cycle mode.

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7. (Original) The base station as set forth in Claim 6 wherein said reduced slot cycle

controller is further capable of causing said base station to transmit a second control message to a

selected target mobile station operating in the full slot cycle mode, said second control message

causing said selected target mobile station to switch to operating in the reduced slot cycle mode.

8. (Original) The base station as set forth in Claim 7 wherein said reduced slot cycle

controller causes said base station to transmit said second control message based on a quality of

service level associated with said selected target mobile station.

9. (Currently Amended) A wireless network comprising a plurality of base stations,

each of said plurality of base stations capable of controlling the use of the reduced slot cycle mode by

mobile stations communicating with said each base station, wherein said each base station

comprises:

a traffic monitor capable of monitoring message traffic levels handled by said each base

station; and

a reduced slot cycle controller capable of receiving traffic statistics information from said

traffic monitor and determining whether use of said reduced slot cycle mode by said mobile stations

communicating with said each base station interferes with scheduling of paging message

transmissions by said each base station,

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wherein in response to a determination that said use of the reduced slot cycle mode by said mobile stations does interfere with said scheduling of paging message transmissions by said each base station, the reduced slot cycle controller causes said each base station to transmit a first control message indicating that the reduced slot cycle mode is disabled in said each base station.

- 10. (Currently Amended) The wireless network as set forth in Claim 9 wherein said reduced slot cycle controller, in response to a determination that said use of the reduced slot cycle mode by said mobile stations does <u>not</u> interfere with said scheduling of paging message transmissions by said each base station, causes said each base station to transmit a first control message indicating that the reduced slot cycle mode is enabled disabled in said each base station.
- 11. (Currently Amended) The wireless network as set forth in Claim $\underline{9}$ 10 wherein said first control message is transmitted in an overhead channel.
- 12. (Currently Amended) The wireless network as set forth in Claim 9 10 wherein said first control message is transmitted in a traffic channel.
- 13. (Currently Amended) The wireless network as set forth in Claim 9 10 wherein said first control message causes a selected target mobile station already operating in the reduced slot cycle mode to switch to operating in the full slot cycle mode.

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14. (Currently Amended) The wireless network as set forth in Claim 9 10 wherein said

first control message causes new mobile stations accessing said each base station to operate only in

the full slot cycle mode.

15. (Original) The wireless network as set forth in Claim 14 wherein said reduced

slot cycle controller is further capable of causing said each base station to transmit a second control

message to a selected target mobile station operating in the full slot cycle mode, said second control

message causing said selected target mobile station to switch to operating in the reduced slot cycle

mode.

16. (Original) The wireless network as set forth in Claim 15 wherein said reduced

slot cycle controller causes said each base station to transmit said second control message based on a

quality of service level associated with said selected target mobile station.

17. (Currently Amended) For use in a wireless network, a method of controlling the use

of the reduced slot cycle mode by mobile stations communicating with a base station, the method

comprising the steps of:

monitoring message traffic levels handled by the base station; and

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determining from traffic statistics information gathered by the step of monitoring whether use

of the reduced slot cycle mode by the mobile stations communicating with the base station interferes

with scheduling of paging message transmissions by the base station; and

in response to a determination that the use of the reduced slot cycle mode by the mobile

stations does interfere with the scheduling of paging message transmissions by the base station,

transmitting a first control message indicating that the reduced slot cycle mode is disabled in the base

station.

18. (Currently Amended) The method as set forth in Claim 17 further comprising the

step, in response to a determination that the use of the reduced slot cycle mode by the mobile stations

does not interfere with the scheduling of paging message transmissions by the base station, of

transmitting a first control message indicating that the reduced slot cycle mode is enabled disabled in

the base station.

19. (Currently Amended) The method as set forth in Claim 17 18 wherein the first

control message is transmitted in an overhead channel.

20. (Currently Amended) The method as set forth in Claim 17 18 wherein the first

control message is transmitted in a traffic channel.

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21. (Currently Amended) The method as set forth in Claim 17 18 wherein the first

control message causes a selected target mobile station already operating in the reduced slot cycle

mode to switch to operating in the full slot cycle mode.

22. (Currently Amended) The method as set forth in Claim 17 18 wherein the first

control message causes new mobile stations accessing the base station to operate only in the full slot

cycle mode.

23. (Original) A mobile station for communicating with a base station of a wireless

network, said mobile station capable of operating in a full slot cycle mode and a reduced slot cycle

mode, wherein said mobile station is capable of receiving from said base station a first control

message indicating that the reduced slot cycle mode is disabled in said base station and, in response

to said first control message, said mobile station operates only in the full slot cycle mode.

24. (Original) The mobile station as set forth in Claim 23 wherein said first control

message causes said mobile station to switch from operating in the reduced slot cycle mode to

operating in the full slot cycle mode.

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